

ENHANCED IMMUNE RESPONSE TO ATTACHMENT (G)
PROTEIN OF RESPIRATORY SYNCYTIAL VIRUS

ABSTRACT OF THE DISCLOSURE

An altered G protein or portion thereof of RSV which retains immunogenicity
5 and which, when incorporated into an immunogenic composition or vaccine and
administered to a vertebrate, does not induce enhanced disease (e.g., atypical pulmonary
inflammation such as pulmonary eosinophilia) upon subsequent infection with RSV, is
disclosed. In a particular embodiment, the altered G protein comprises an alteration in
one or more regions selected from the group consisting of the region from amino acid
10 159 to amino acid 198, the region from amino acid 159 to amino acid 174, the region
from amino acid 171 to amino acid 187, the region from amino acid 176 to amino acid
190, and the region from amino acid 184 to amino acid 198 of the RSV G protein.
Immunogenic compositions and vaccines comprising the altered RSV G protein, and
optionally comprising RSV F protein, are also disclosed.